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FORM**

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Total Number of Pages in This Submission

Application Number	10/734,759
Filing Date	12/11/2003
First Named Inventor	Thomas Goodwin
Art Unit	1635
Examiner Name	Kimberly Chong
Attorney Docket Number	MSC-22859-3-CU

ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Second Non-Compliant Amendment Response Return Receipt Postcard
Remarks Second Response to Notice of Non-Compliant Amendment of 6/23/05 (3pgs)		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	NASA Johnson Space Center		
Signature			
Printed name	Theodore U. Ro		
Date	7/12/05	Reg. No.	52,168

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: Thomas Goodwin et al. §
Serial No.: 10/734,759 § Examiner: Chong, Kimberly
Filed: December 11, 2003 § Group Art Unit: 1635
For: Production of Functional Proteins: § Conf. #: 2623
Balance of Shear Stress and Gravity §

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Signature :

Tanya B. Jefferson

Second Response to Notice of Non-Compliant Amendment (37 CFR 1.121)

This second response is made to the Notice of Non-Compliant Amendment mailed on June 23, 2005. This second response replaces and supercedes Applicants Response to Notice of Non-Compliant Amendment submitted on July 7, 2005.

Amendments to the Claims are reflected in the **Listing of Claims**, which begins on page 2 of this paper.

Remarks begin on page 4 of this paper.